PTO/SB/05 (05-03)
Approved for use through 04/30/2003. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE and to a collection of information unless it displays a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are requ						displays a valid OND CONTO HUMBE		
UTILITY	Attomey Docket No. TOW-027 First Inventor Tadashi Tsunoda							
PATENT APPLICATION	7 7/00 7/	Tauasiii Isuliuua						
TRANSMITTAL	Title	FUEL CE	LSTACK					
	170	FUEL CELL AND FUE				t occurrence		
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Expres	Express Mail Label No. EV 244 880 927 US				927 US		
APPLICATION ELEMENTS		MS Patent Application						
	ADDRESS TO: Commissioner for Patents P.O. Box 1450							
See MPEP chapter 600 concerning utility patent application con	ntents.	Alexandria, VA 22313-1450						
1. X Fee Transmittal Form (e.g., PTO/SB/17)	7. CD-ROM or CD-R in duplicate, large table or							
Applicant claims small antity status	Computer Program (Appendix) Nucleotide and/or Amino Acid Sequence Submission							
See 37 CFR 1.27.		(if applicable, all necessary)						
· · · ·	s 51] a. Computer Readable Form (CRF)							
(preferred arrangement set forth below) - Descriptive title of the invention		•	ecification		_			
 Cross Reference to Related Applications Statement Regarding Fed sponsored R & D 	i. CD-ROM or CD-R (2 copies); or ii. Paper							
 Reference to sequence listing, a table, or a computer program listing appendix 		c	Statemer	nts verifyi	ng identity	of above copies		
Background of the Invention Brief Summary of the Invention	ACCOMPANYING APPLICATIONS PARTS							
 Brief Description of the Drawings (if filed) 		9. X A	ssignmen	t Papers	(cover she	eet & document(s))		
 Detailed Description Claim(s) 			7 CFR 3.7			Power of		
- Abstract of the Disclosure 4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 2	25]	(when there is an assignee) Attorney 11. English Translation Document (if applicable)						
5. Oath or Declaration [Total Sheets	5]		nformation			Copies of IDS		
a. X Newly executed (original or copy)		Statement (IDS)/PTO-1449						
b. Copy from a prior application (37 CFR 1.63(d))	Copy from a prior application (37 CFR 1.63(d)) 14 Return Receipt Postcard (MPEP 503)							
(Should be specifically itemized) [Should be specifically itemized] [Continuation/divisional with Box 18 completed] [Continuation/divisional with Box 18 completed]								
Signed statement attached deleting			(if foreign priority is claimed)					
inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).	Applicant must attach form PTO/SB/35 or its equivalent.							
		17.	17. Other:					
6. X Application Data Sheet. See 37 CFR 1.76	6. X Application Data Sheet. See 37 CFR 1.76							
18. If a CONTINUING APPLICATION, check appropriate box, following the title, or in an Application Data Sheet under 37 CFI	and supp	ly the requisite	e informati	ion below	and in the	e first sentence of the specification		
Continuation Divisional Continuation		CIP) of prior	r applicatio	on No.:				
	, ,		• •	•				
Prior application information: Examiner Art Unit: For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied								
under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.								
19. CORRESPONDENCE ADDRESS								
		00959						
X Customer Number or Bar Code Label		55555		i	or X	Correspondence address below		
Name LAHIVE & COCKFIELD, LLP								
Anthony A. Laurentano	Anthony A. Laurentano							
Address 28 State Street								
City Boston Sta	te	MA		Zi	p Code	02109		
	ephone	(617) 227-7400			Fax	(617) 742-4214		
Name (Print/Type) Anthony A. Laurentano								
Signature Date June 27 2003								
Signature Surrey January January January								
I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV 244 880 927								
US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.								
Dated: June 27, 2003 Signature: Mary Juniur (Anthony A. Laurentano)								

PTO/SB/17 (05-03)
Approved for use through 04/30/2003. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TO A MOMETTAL			Complete if Known						
FEE TRANSMITTAL	Application Number				er	NEW APPLICATION			
for FY 2003	Filing Date					Concurrently Herewith			
Effective 01/01/2003, Patent fees are subject to annual revision.		First Named Inventor			ntor_	Tadashi Tsunoda			
		Examiner Name				Not Yet A	Assigned		
Applicant claims small entity status. See 37 CFR 1.27	Art Unit			N/A					
TOTAL AMOUNT OF PAYMENT (\$) 874.00				cket No	D.	TOW-02	7		
METHOD OF PAYMENT (check all that apply)	 			FEE	CALCU	LATION (co	ontinued)		
Cradit Money	2	ADDITIO	ONIAL				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Check Card Order Other None	3. 1	יוווטטא	JIVAL	FEES	•				
X Deposit Account	Larm	e Entity	Small	l Entity					
Deposit Account 12-0080	Fee	Fee	Fee	Fee	-	Fee Des	crintian		
Number	Code	(\$)	Code	(\$)		i ee Desi	cripaori	Fee Paid	
Deposit Account Lahive & Cockfield, LLP	1051	130	2051	65	Surcharge	- late filing fe	ee or oath		
Name The Director is hereby authorized to: (check all that apply)	1052	50	2052	25	Surcharge sheet.	 late provisi 	onal filing fee or cover	1	
X Charge fee(s) indicated below X Credit any overpayments	1053	130	1053	130		sh specificatio	ın		
Charge any additional fee(s) during the cendency of this	1812		1812		_	,	parte reexamination		
application	l				_	g publication (_	
Charge fee(s) indicated below, except for the filling fee	1804	920*	1804	920*	Examiner	action	·		
to the above-identified deposit account.	1805	1,840*	1805	1,840*	Examiner	g publication (action	or SIR after		
FEE CALCULATION	1251	110	2251	55		for reply withi		ļ	
1. BASIC FILING FEE	1252		2252	205			n second month	<u> </u>	
Large Entity Small Entity Fee Fee Fee Fee Fee Paid	1253 1254	930 1,450	2253 2254	465 725		for reply withi		<u> </u>	
Code (\$) Code (\$)	1		Ì				n fourth month		
1001 750 2001 375 Utility filing fee 750.00 1002 330 2002 165 Design filing fee	1255 1401	1,970 320	2255	985 160	Notice of A	for reply withi	n tittn montn		
1002 530 2002 103 Design ming fee	1402		2402	160		ef in support (of an appeal		
1004 750 2004 375 Reissue filing fee	1403		2403	140	_	r oral hearing	• •		
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to	institute a put	olic use proceeding		
SUBTOTAL (1) (\$) 750.00	1452	110	2452	55	Petition to	revive – unav	oidable		
	1453	-	2453	650		revive - uninte			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Extra Fee from	1501		2501	650	-	e fee (or reiss	ue)		
Claims below Fee Paid	1502		2502	235	Design iss			ļ	
Undependent	1503 1460		2503 1460	315 130	Plant issue	e ree o the Commis	sioner		
Claims 4 -3** = 1 x 84.00 = 84.00	1807	50	1807	50			CFR 1.17(q)		
Multiple Dependent	1806		1806	180		=	on Disclosure Stmt		
Large Entity Small Entity Fee Fee Fee Fee Fee Fee	l						assignment per	40.00	
Code (\$) Code (\$) Fee Description	8021	40	8021	40		mes number	of properties) r final rejection	40.00	
1202	1809	750	2809	375	(37 ČFR 1	.129(a))	•	L	
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375		dditional inve (37CFR 1.129			
1204 84 2204 42 ** Reissue independent claims	1801	750	2801	375			Examination (RCE)		
over original patent 1205 18 2205 9 ** Reissue claims in excess of 20	1802	900	1802	900		or expedited e	xamination		
and over original patent	Other	fee (spe	cify)		or a ocsigi	application			
SUBTOTAL (2) (\$) 84.00	*Red	uced by E	Basic Fi	ling Fee	Paid	SUBTO	TAL (3) (\$)	40.00	
**or number previously paid, if greater, For Reissues, see above									
SUBMITTED BY Complete (if applicable)									
Name (Print/Type) Anthony A. Laurentano Registration No. (Attorpey/Agent) 38,220 Telephone (61)					(617) 227-7400)			
Signature 27 2002									
Signature June 27, 2003									

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV 244 880 927 US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: June 27, 2003

Signature:

Anthony A. Laurentano)

Application No. (i	f known): NEW APPLICATION	Attorney Docket No.: TOW-027
Cer	tificate of Express Mailir	ng Under 37 CFR 1.10
I hereb Expres	y certify that this correspondence is being dep s Mail, Airbill No. EV 244 880 927 US in an en	osited with the United States Postal Service as velope addressed to:
	MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	
on	June 27, 2003 Date	
_	Signature	
_	Anthony A. Laurent Typed or printed name of person	ano signing Certificate
Note:	Each paper must have its own certificate of reach submitted paper.	mailing, or this certificate must identify
	Application Data Sheet	
ł		